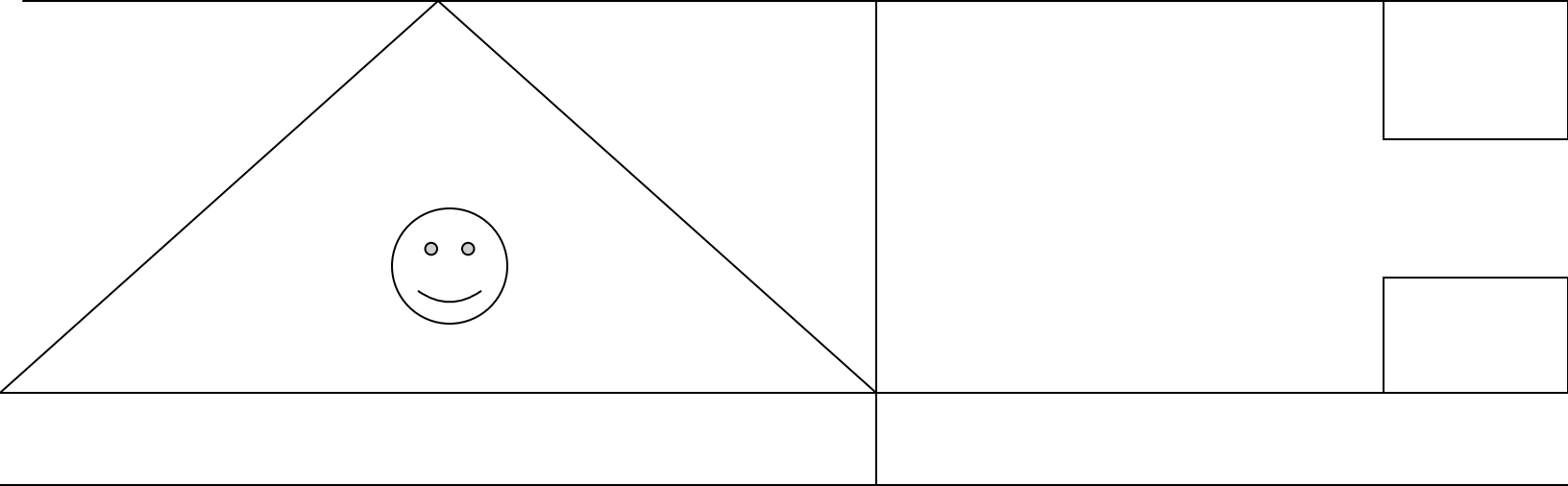


## Insert 4 – Circulatory System



**In the sections marked with a smiley face,**

1. Draw and label all the parts to the Circulatory system.
  - a. Heart
    - i. Left ventricle
    - ii. Right ventricle
    - iii. Left atrium
    - iv. Right atrium
  - b. Pulmonary artery
  - c. Capillaries around the alveoli
  - d. Capillaries around the cell
  - e. Capillaries in the villi of the small intestine
  - f. Aorta
  - g. Artery
  - h. Vein
  - i. Vena cava
  - j. Venules
  - k. arterioles
2. Flow of materials through the circulatory system
  - a. Describe the flow of blood through the circulatory system
  - b. Describe the flow of  $O_2$  from the environment into the cell
  - c. Describe the flow of  $C_6H_{12}O_6$  from the environment into the cell
  - d. How is  $CO_2$  released into the atmosphere after it is produced?
3. Where do the materials (such as  $C_6H_{12}O_6$  and  $O_2$ ) need to go? For what purpose? (write the reaction and include the name).
4. What is the chemical that picks up  $O_2$  and brings it throughout the circulatory system?
5. What color is your blood when it does not have  $O_2$  in it? What color is your blood when it does have  $O_2$  in it?

